

Crime Laboratory Equipment Replacement**FY2022 Request:****\$300,000****Reference No:****63168****AP/AL:** Appropriation**Project Type:** Life / Health / Safety**Category:** Public Protection**Location:** Statewide**House District:** Statewide (HD 1-40)**Impact House District:** Statewide (HD 1-40)**Contact:** Elizabeth Dunayski**Estimated Project Dates:** 07/01/2021 - 06/30/2026**Contact Phone:** (907)465-2169**Brief Summary and Statement of Need:**

Replace aging gas chromatograph/mass spectrometer and purchase a vacuum metal deposition mid-level chamber.

Funding:	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	Total
1004 Gen Fund	\$300,000						\$300,000
Total:	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:**Project Description/Justification:**

The Alaska Scientific Crime Detection Laboratory (ASCDL) is the state's only full-service, multi-disciplinary forensic service provider. The ASCDL serves all state and local law enforcement as well as regionally based federal and military law enforcement personnel. The mission of the ASCDL is to provide forensic testing services to Alaska communities in a timely manner, provide expert court testimony on lab results of tested evidence, and train law enforcement in proper evidence collection and preservation techniques. This project replaces essential outdated equipment necessary to meet the current and forecasted demands of forensic services in Alaska.

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Gas Chromatograph (GC) / Mass Spectrometer (MS)

The ASCDL chemistry section provides seized drug and forensic alcohol analysis and requires the replacement of the following essential laboratory instrument:

The GC/MS machine is a combination of both the process of GC and MS to identify the elements of a compound. This machine combines the Gas Chromatography and Mass Spectrometry processes to

identify the chemical composition of a compound. This machine is the original equipment purchased with the opening of the Crime Lab and is now starting to age out requiring this replacement request.

Vacuum Metal Deposition Mid-Level (VDM) Chamber

The ASCDL physical section provides latent fingerprint processing and analysis and is often asked by law enforcement to attempt to develop fingerprints on fired cartridge casings. This is nearly always unsuccessful using current development methods.

The VMD560C would enhance the capabilities of latent print processing in the laboratory and can be used on a variety of substrates that are normally considered difficult or not conducive to latent print recovery, including fired ammunition, fabrics, and leather items which could provide probative value in the case. Fired ammunition may be the most probative and problematic substrate for latent print recovery – VMD is the only validated, commercially available product to enhance the potential for recovering latent prints from this surface. VMD has also been successful when processing items that have been submerged in water or buried underground increasing the number latent prints found in these unusual cases. The VDM Chamber equipment will allow the SCDL to obtain crucial evidence and enhance laboratory services.

Fiscal impact: \$300.0 GF

- Gas Chromatograph/Mass Spectrometer: \$150.0 UGF
- Vacuum Metal Deposition Mid-Level Chamber: \$150.0 UGF